

**METHOD AND SYSTEM FOR
MULTIPROCESSOR GARBAGE COLLECTION**

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Abstract of the Invention

A garbage collection system and method in a multiprocessor environment having a shared memory wherein two or more processing units participate in the reclamation of garbage memory objects. The shared memory is divided into regions or heaps and all
10 heaps are dedicated to one of the participating processing units. The processing units generally perform garbage collection operations, i.e., a thread on the heap or heaps that are dedicated to that the processing unit. However, the processing units are also allowed to access and modify other memory objects, in other heaps when those objects are
15 referenced by and therefore may be traced back to memory objects within the processing units dedicated heap. The processors are synchronized at rendezvous points to prevent reclamation of used memory objects.

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